

ABSTRACT OF THE DISCLOSURE

A method for identifying a control path of a controlled system, and more particularly to a method for identifying a control path in the presence of deterministic perturbations is described. At least one deterministic perturbation correcting signal is determined in a first identification process, and the perturbation correcting signal is stored in the form of a function. A control path of the controlled system is identified in a second identification process by adding to the controlled system the at least one stored deterministic perturbation correcting signal with a negative feedback. The method can be used with machine tools, production machines and/or robots which demand a high control accuracy and/or a high-quality control characteristic. In particular, perturbation effects due to slot latching in motors, in particular linear motors, can be minimized.